

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/039,177CDATE: 04/01/2001
TIME: 07:37:03

INPUT SET: S36583.raw

46
47 (vii) PRIOR APPLICATION DATA:
48 (A) APPLICATION NUMBER: 9311047.6
49 (B) FILING DATE: May 28, 1993
50
51 (vii) PRIOR APPLICATION DATA:
52 (A) APPLICATION NUMBER: 9313763.6
53 (B) FILING DATE: July 2, 1993
54
55 (vii) PRIOR APPLICATION DATA:
56 (A) APPLICATION NUMBER: 9136099.2
57 (B) FILING DATE: August 3, 1993
58
59 (vii) PRIOR APPLICATION DATA:
60 (A) APPLICATION NUMBER: 321344.5
61 (B) FILING DATE: October 15, 1993
62
63 (viii) ATTORNEY/AGENT INFORMATION:
64 (A) NAME: Mary Anne Schofield
65 (B) REGISTRATION NUMBER: 36,669
66 (C) REFERENCE/DOCKET NUMBER: LUD 5539 CIP - JEL/MAS
67
68 (ix) TELECOMMUNICATION INFORMATION:
69 (A) TELEPHONE: (202) 662-0200
70 (B) TELEFAX: (202) 662-4643
71
72
73

ERRORED SEQUENCES FOLLOW:

2717 (2) INFORMATION FOR SEQ ID NO: 34:
2718 (i) SEQUENCE CHARACTERISTICS:
2719 (A) LENGTH: 513 amino acids
--> 2720 (B) ~~TYPE~~: amino acid → format error: delete "7"
2721 (D) TOPOLOGY: linear
2722
2723 (ii) MOLECULE TYPE: peptide
2724
2725 (vi) ORIGINAL SOURCE:
2726 (A) ORGANISM: MOUSE
2727
2728 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:
2729
2730
2731 Met Gly Ala Ala Ala Lys Leu Ala Phe Ala Val Phe Leu Ile Ser Cys
2732 5 10 15
2733 Ser Ser Gly Ala Ile Leu Gly Arg Ser Glu Thr Gln Glu Cys Leu Phe
2734 20 25 30
2735 Phe Asn Ala Asn Trp Glu lys Asp Arg Thr Asn Gln Thr Gly Val Glu

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2736	35	40	45	
2737	Pro Cys Tyr Gly Asp Lys Asp Lys Arg Arg His Cys Phe Ala Thr Trp			
2738	50	55	60	
2739	Lys Asn Ile Ser Gly Ser Ile Glu Ile Val Lys Gln Gly Cys Trp Leu			
2740	65	70	75	80
2741	Asp Asp Ile Asn Cys Tyr Asp Arg Thr Asp Cys Val Glu Lys Lys Asp			
2742	85	90	95	
2743	Ser Pro Glu Val Tyr Phe Cys Cys Glu Gly Asn Met Cys Asn Glu			
2744	100	105	110	
2745	Lys Phe Ser Tyr Phe Pro Glu Met Glu Val Thr Gln Pro Thr Ser Asn			
2746	115	120	125	
2747	Pro Val Thr Pro Lys Pro Pro Tyr Tyr Asn Ile Leu Leu Tyr Ser Leu			
2748	130	135	140	
2749	Val Pro Leu Met Leu Ile Ala Gly Ile Val Ile Cys Ala Phe Trp Val			
2750	145	150	155	160
2751	Tyr Arg His His Lys Met Ala Tyr Pro Pro Val Leu Val Pro Thr Gln			
2752	165	170	175	
2753	Asp Pro Gly Pro Pro Pro Ser Pro Leu Leu Gly Leu Lys Pro Leu			
2754	180	185	190	
2755	Gln Leu Leu Glu Val Lys Ala Arg Gly Arg Phe Gly Cys Val Trp Lys			
2756	195	200	205	
2757	Ala Gln Leu Leu Asn Glu Tyr Val Ala Val Lys Ile Phe Pro Ile Gln			
2758	210	215	220	
2759	Asp Lys Gln Ser Trp Gln Asn Glu Tyr Glu Val Tyr Ser Leu Pro Gly			
2760	225	230	235	240
2761	Met Lys His Glu Asn Ile Leu Gln Phe Ile Gly Ala Glu Lys Arg Gly			
2762	245	250	255	
2763	Thr Ser Val Asp Val Asp Leu Trp Leu Ile Thr Ala Phe His Glu Lys			
2764	260	265	270	
2765	Gly Ser Leu Ser Asp Phe Leu Lys Ala Asn Val Val Ser Trp Asn Glu			
2766	275	280	285	
2767	Leu Cys His Ile Ala Glu Thr Met Ala Arg Gly Leu Ala Tyr Leu His			
2768	290	295	300	
2769	Glu Asp Ile Pro Gly Leu Lys Asp Gly His Lys Pro Ala Ile Ser His			
2770	305	310	315	320
2771	Arg Asp Ile Lys Ser Lys Asn Val Leu Leu Lys Asn Asn Leu Thr Ala			
2772	325	330	335	
2773	Cys Ile Ala Asp Phe Gly Leu Ala Leu Lys Phe Glu Ala Gly Lys Ser			
2774	340	345	350	
2775	Ala Gly Asp Thr His Gly Gln Val Gly Thr Arg Arg Tyr Met Ala Pro			
2776	355	360	365	
2777	Glu Val Leu Glu Gly Ala Ile Asn Phe Gln Arg Asp Ala Phe Leu Arg			
2778	370	375	380	
2779	Ile Asp Met Tyr Ala Met Gly Leu Val Leu Trp Glu Leu Ala Ser Arg			
2780	385	390	395	400
2781	Cys Thr Ala Ala Asp Gly Pro Val Asp Glu Tyr Met Leu Pro Phe Glu			
2782	405	410	415	
2783	Glu Glu Ile Gly Gln His Pro Ser Leu Glu Asp Met Gln Glu Val Val			
2784	420	425	430	
2785	Val His Lys Lys Lys Arg Pro Val Leu Arg Asp Tyr Trp Gln Lys His			
2786	435	440	445	
2787	Ala Gly Met Ala Met Leu Cys Glu Thr Ile Glu Glu Cys Trp Asp His			
2788	450	455	460	

RAW SEQUENCE LISTING
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2789 Asp Ala Glu Ala Arg Leu Ser Ala Gly Cys Val Gly Glu Arg Ile Thr
 2790 465 470 475 480
 2791 Gln Met Gln Arg Leu Thr Asn Ile Ile Thr Thr Glu Asp Ile Val Thr
 2792 485 490 495
 2793 Val Val Thr Met Val Thr Asn Val Asp Phe Pro Pro Lys Glu Ser Ser
 2794 500 505 510
 2795 Leu
 2796
 2797

RECEIVED

2970 (2) INFORMATION FOR SEQ ID NO: 37:
 2971 (i) SEQUENCE CHARACTERISTICS: *97 shown* APR 03 2001
 --> 2972 (A) LENGTH: 102 amino acids
 --> 2973 (B) TYPE: amino acid *delete "7"* TECH CENTER 1600/2900
 2974 (D) TOPOLOGY: linear
 2975
 2976 (ii) MOLECULE TYPE: peptide
 2977
 2978 (vi) ORIGINAL SOURCE:
 2979 (A) ORGANISM: C. elegans
 2980
 2981 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37: *misaligned amino acid nos.*
 2982 *(see item 4 on Error Summary sheet)*
 2983
 2984 Cys His Cys Ser Arg Glu Val Gly Cys Asn Ala Arg Thr Thr Gly Trp
 2985 5
 2986 Val Pro Gly Ile Glu Phe Leu Asn Glu Thr Asp Arg Ser Phe Tyr Glu
 2987 20 25 30
 2988 Asn Thr Cys Tyr Thr Asp Gly Ser Cys Tyr Gln Ser Ala Arg Pro Ser
 2989 35 40
 2990 Pro Glu Ile Ser His Phe Gly Cys Met Asp Glu Lys Ser Val Thr Asp
 2991 50 55 60
 2992 Glu Thr Glu Phe His Asp Thr Ala Ala Lys Val Cys Thr Asn Asn Thr
 2993 65 70
 2994 Lys Asp Pro His Ala Thr Val Trp Ile Cys Cys Asp Lys Gly Asn Phe
 2995 85 90
 2996 Cys
 2997
 2998
 2999

3125 (2) INFORMATION FOR SEQ ID NO:46:
 3126 (i) SEQUENCE CHARACTERISTICS: *mandatory response needed (6 shown)*
 --> 3127 (A) LENGTH: ? amino acids
 3128 (B) TYPE: amino acid
 3129 (D) TOPOLOGY: linear
 3130
 3131 (ii) MOLECULE TYPE: peptide
 3132
 3133 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:
 3134
 3135 Gly Thr Ala Arg Tyr Met
 3136 55
misaligned number

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/039,177CDATE: 04/01/2001
TIME: 07:37:04

INPUT SET: S36583.raw

Line	Error	Original Text
29	Wrong Classification	(C) CLASSIFICATION: 435
2720	Unknown or Misplaced Identifier	(B) TY7PE: amino acid
2972	Entered (102) and Calc. Seq. Length (97) differ	(A) LENGTH: 102 amino acids
2973	Unknown or Misplaced Identifier	(B) TY7PE: amino acid
3127	Length must be an Integer	(A) LENGTH: amino acids
3127	Entered (0) and Calc. Seq. Length (6) differ	(A) LENGTH: amino acids

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APR 03 2001

TECH CENTER 1600/2900

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>09/039,199C</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	RECEIVED
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	APR 03 2001
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	TECH CENTER 1600/2900
4 <input checked="" type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped	
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response.	
12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted "file", resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	